TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	RAMESH ANAND, E

SPECIFIC GRAVITY AND WATER ABSORPTION

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	21.05.18
Period of Soaking	24 hours	Date of Testing	21.05.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	655	649	670	
B	Weight of oven - dry sample gm.	642	636	662	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1687	1684	1696	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.642	2.650	2.659	2.650
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.025	2.044	1.208	1.759

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Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	E. RAMESH ANAND

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand)	Proposed Use	coping concrete/PCC
Sample Location	At/Plant/ At site	Date of Sampling	21.05.18
		Date of Testing	21.05.18

Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	186	186	6.20	93.80	90 - 100
2.36 mm	384	570	19.00	81.00	75 - 100
1.18 mm	485	1055	35.17	64.83	55 - 90
0.600 mm	422	1477	49.23	50.77	35 -59
0.300 mm	668	2145	71.50	28.50	8-30
0.150 mm	564	2709	90.30	9.70	0 - 10
Pan	291	3000			-

Remarks : Satisfactory / Not Satisfactory

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Test report on Compressive strength of concrete cubes

Project:	Improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor	E. RAMESH ANAND
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21.05.18	28.05.18	7 days	8.222	22500	330	14.67	14.52
2	21.05.18	28.05.18	7 days	8.282	22500	328	14.58	
3	21.05.18	28.05.18	7 days	8.260	22500	322	14.31	

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Consultant	TEJUS CONSULTANTS
Contractor	E, RAMESH ANAND
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Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21.05.18	28.05.18	7 days	8.226	22500	328	14.58	14.43
2	21.05.18	28.05.18	7 days	8.246	22500	326	14.49	
3	21.05.18	28.05.18	7 days	8.258	22500	320	14.22	

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Contractor	E, RAMESH ANAND
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Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21.05.18	18.06.18	28 days	8.230	22500	456	20.27	20.41
2	21.05.19	18.06.18	28 days	8.268	22500	458	20.36	
3	21.05.20	18.06.18	28 days	8.292	22500	464	20.62	

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TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O : +91 80 23287532, tejusconsultants@gmail.com

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Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	21.05.18	18.06.18	28 days	8.234	22500	452	20.09	20.18
2	21.05.18	18.06.18	28 days	8.244	22500	450	20.00	
3	21.05.18	18.06.18	28 days	8.255	22500	460	20.44	

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KERB STONE (CORE) TEST REPORT

[illegible]	:	Bruhat Bangalore Mahanagara Palike
[illegible]	:	E, RAMESH ANAND
[illegible] of Work	:	improvements to footpaths on vidyaranyapura main road both sides from Nanjappa circle - Devi circle- GKVK road in Ward No. 09 in Vidyaranyapura Sub Devision.
[illegible] Sample Tested	:	3
[illegible] of Testing	:	13/06/18
[illegible] Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
[illegible] of Concrete	:	M_{15}

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	85.00	0.409	2450.61	1.70	0.960	30.30	15.43	16.67	16.00	20.00
50.00	85.00	0.406	2432.64	1.70	0.960	30.40	15.48	16.72	16.05	20.07
50.00	85.00	0.412	2468.59	1.70	0.960	30.00	15.28	16.50	15.84	19.80

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[illegible] indicated above are based on the tests carried out on the samples received in the laboratory.
[illegible] regarding the report must be reported reported within 90 days from the date of testing.

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00	85.00	0.414	2480.57	1.70	0.960	31.25	15.92	17.19	16.50	20.63
00	85.00	0.426	2552.47	1.70	0.960	31.60	16.09	17.38	16.69	20.86
00	85.00	0.412	2468.59	1.70	0.960	31.50	16.04	17.33	16.63	20.79

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Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
85.00	0.417	2498.55	1.70	0.960	31.25	15.92	17.19	16.50	20.63
85.00	0.423	2534.50	1.70	0.960	31.60	16.09	17.38	16.69	20.86
85.00	0.411	2462.60	1.70	0.960	31.50	16.04	17.33	16.63	20.79

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50.00	85.00	0.409	2450.61	1.70	0.960	30.30	15.43	16.67	16.00	20.00
50.00	85.00	0.406	2432.64	1.70	0.960	30.40	15.48	16.72	16.05	20.07
50.00	85.00	0.412	2468.59	1.70	0.960	30.00	15.28	16.50	15.84	19.80

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50.00	85.00	0.422	2528.50	1.70	0.960	31.25	15.92	17.19	16.50	20.63
50.00	85.00	0.426	2552.47	1.70	0.960	31.60	16.09	17.38	16.69	20.86
50.00	85.00	0.411	2462.60	1.70	0.960	31.50	16.04	17.33	16.63	20.79

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